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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/923,374	08/07/2001	Erik Dahlman	8194-585	8934	
20792 75	90 07/26/2005		EXAM	EXAMINER	
MYERS BIGEL SIBLEY & SAJOVEC			KUMAR, PANKAJ		
PO BOX 37428 RALEIGH, NC 27627			ART UNIT	PAPER NUMBER	
, , , , , , , , , , , , , , , , , , , ,			2631	2631	
			DATE MAILED: 07/26/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		09/923,374	DAHLMAN ET AL.			
		Examiner	Art Unit			
· · · · · · · · · · · · · · · · · · ·		Pankaj Kumar	2631			
Period for	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
THE N - Extens after S - If the p - If NO p - Failure Any re	PRTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Sions of time may be available under the provisions of 37 CFR 1.13 (6) MONTHS from the mailing date of this communication. Decriod for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, the ply received by the Office later than three months after the mailing dipatent term adjustment. See 37 CFR 1.704(b).	6(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	ely filed will be considered timely. the mailing date of this communication. 0 (35 U S C 8 133)			
Status						
1)🖂	Responsive to communication(s) filed on <u>5/4/20</u>	<u>005</u> .				
2a)⊠ ′	This action is FINAL . 2b) ☐ This	action is non-final.				
3) 🗌 🗧	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
(closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Dispositio	on of Claims					
4)🛛 (4)⊠ Claim(s) <u>1-70 and 72-108</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)⊠ Claim(s) <u>69,70 and 72-85</u> is/are allowed.						
6)⊠ (6)⊠ Claim(s) <u>1-9,11-17,21-28,32-37,45,46,49-51,53,54,57-61,86-89 and 97-108</u> is/are rejected.					
8) 🗌 (Claim(s) are subject to restriction and/or	election requirement.				
Application	on Papers					
9)☐ The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) 🗌 T	he oath or declaration is objected to by the Exa	aminer. Note the attached Office	Action or form PTO-152.			
Priority u	nder 35 U.S.C. § 119					
12) 🗌 A	cknowledgment is made of a claim for foreign	priority under 35 U.S.C. & 119(a)	-(d) or (f)			
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3	B. Copies of the certified copies of the priori		d in this National Stage			
* 0	application from the International Bureau		,			
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(<u> </u>				
1) Notice 2) Notice	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary (PTO-413) Paper No(s)/Mail Date				
3) 🛛 Inform	ation Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) Notice of Informal Pa				
	No(s)/Mail Date <u>5/05</u> .	6)				

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DETAILED ACTION

Response to Arguments

- 1. Applicant's arguments filed have been fully considered but they are not persuasive.
- Applicant argues that the threshold device 364 does not test the output of the accumulator 362 and produce a symbol estimate based on the test since the threshold device makes a hard decision of a 0 or 1 to decide the symbol 0 or 1. This is not persuasive. The threshold device makes a hard decision based on a testing of what input has been received and accordingly produces a 0 or 1 symbol estimate.
- 3. In response to applicant's argument that it is not possible to combine USPN 5572552 with Atarius, the test for obviousness is not whether the features of a secondary reference may be bodily incorporated into the structure of the primary reference; nor is it that the claimed invention must be expressly suggested in any one or all of the references. Rather, the test is what the combined teachings of the references would have suggested to those of ordinary skill in the art. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981).

Response to Amendment

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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5. Claims 1, 12, 32, 50, 53, 58, 86, 99, 2, 13, 100, 3, 14, 101, 9, 27, 49, 57, 60, 88, 107, 15, 21, 97, 98 are rejected under 35 U.S.C. 103(a) as being unpatentable over Atarius wo-00/35112.

- 6. Claims 4, 22, 33, 102, 5, 23, 34, 103, 6, 24, 35, 104, 8, 26, 37, 106, 11, 28, 108 are rejected under 35 U.S.C. 103(a) as being unpatentable over Atarius wo-00/35112 as applied to claims above in view of Held USPN 6463097.
- 7. Claims 7, 25, 36, 105 are rejected under 35 U.S.C. 103(a) as being unpatentable over Atarius in view of Held as applied to claims above, and further in view of Uesugi USPN 6,259,721.
- 8. Claims 16, 17, 45, 46 are rejected under 35 U.S.C. 103(a) as being unpatentable over Atarius wo-00/35112 as applied to claims above in view of Ottosson USPN 6,683,924.
- 9. Claims 51, 54, 59, 87 are rejected under 35 U.S.C. 103(a) as being unpatentable over Atarius wo-00/35112 as applied to claims above in view of Takano USPN 6,788,669.
- Claims 61, 89 is rejected under 35 U.S.C. 103(a) as being unpatentable over Atarius wo-00/35112 as applied to claims above in view of Soleimani USPN 5,208,829.
- 11. See prior action for details.

Allowable Subject Matter

- 12. Claims 69, 70, 72-85 are allowed. See prior action for details.
- 13. Claims 10, 18, 19, 20, 29, 30, 31, 38, 39, 40-42, 43, 44, 47, 48, 52, 55, 56, 62, 63-68, 90, 91, 92, 93, 94, 95, 96 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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Conclusion

14. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pankaj Kumar whose telephone number is (571) 272-3011. The examiner can normally be reached on Mon, Tues, Thurs and Fri after 8AM to after 6:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mohammad H. Ghayour can be reached on (571) 272-3021. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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PK

MOHAMMED GHAYOUR
SUPERVISORY PATENT EXAMINER